

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
7 April 2005 (07.04.2005)

PCT

(10) International Publication Number  
**WO 2005/030248 A1**

(51) International Patent Classification<sup>7</sup>: **A61K 38/45**,  
A61P 35/00, 35/04, A61K 38/16, 38/17, 47/48, 47/42

(21) International Application Number:  
PCT/CA2004/001763

(22) International Filing Date:  
29 September 2004 (29.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/506,162 29 September 2003 (29.09.2003) US  
10/902,878 2 August 2004 (02.08.2004) US

(71) Applicant (for all designated States except US): **BIOAX-ONE THERAPEUTIQUE INC.** [CA/CA]; 3575, avenue du Parc, Bureau 5322, Montréal, Québec H2X 3P9 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MCKERRACHER, Lisa** [CA/CA]; 600, rue de la Savoyane, Ile des Soeurs, Québec H3E 1Y7 (CA). **LASKO, Dana** [CA/CA]; 5118, avenue Westmore, Montréal, Québec H4V 1Z5 (CA).

(74) Agent: **OGILVY RENAULT?**; Suite 1600, 1981 McGill College Avenue, Montreal, Québec H3A 2Y3 (CA).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **CLOSTRIDIUM BOTULINUM C3 EXOTRANSFERASE COMPOSITIONS AND METHODS FOR TREATING TUMOUR SPREADING**

(57) Abstract: Pharmaceutical compositions, each consisting of a cell-permeable fusion protein conjugate of a polypeptidic cell-membrane transport moiety and a Clostridium botulinum C3 exotransferase unit, or a functional analog thereof, are provided. The compositions are useful to prevent or inhibit uncontrolled proliferation, spreading, and migration of a metastatic neoplastic cell of a cancer in a mammal. The compositions can each effect or arrest combination of two or more of tumor cell proliferation, migration, angiogenesis, and metalloproteinase secretion.



**WO 2005/030248 A1**